



# METHOD FOR THE SPECTROSCOPIC ANALYSIS OF A BIOLOGICAL OR CHEMICAL SUBSTANCE

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**Classification:**  
- **international:** G01N21/35  
- **european:** G01N21/35; G01N21/35F  
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**Priority number(s):** DE20031061903 20031222

**Also published as:**

 DE10361903 (A1)

**Cited documents:**

 US5247842  
 US2002158196  
 US2002113144  
 XP012030208

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**Abstract of WO2005062025**

The invention relates to a method for spectroscopically analyzing a preferably biological or chemical substance. According to said method, a sample of the substance is radiated with electromagnetic radiation, the electromagnetic radiation spectrum that is influenced by the sample is registered, and conclusions about the properties of the sample are drawn from the spectral distribution. According to the inventive method, the sample is ionized at least in part, the electromagnetic radiation used has a frequency in the infrared, gigahertz, or terahertz range, and the influence of ionized portions of the sample on the spectrum is registered and evaluated.



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# METHOD AND SYSTEM FOR MEASURING A SPECIFIC ABSORPTION RATE (SAR)

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 - european: G01N22/00  
**Application number:** WO2004FR00409 20040224  
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## Also published as:

 WO2004079299 (A3)  
 FR2851823 (A1)

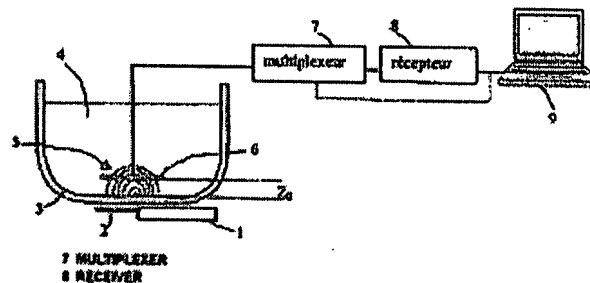
## Cited documents:

 EP1070966  
 US6525657  
 WO0186311  
 XP002301520

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## Abstract of WO2004079299

The invention relates to a very quick method of measuring a specific absorption rate (SAR) in a phantom filled with a liquid which reconstitutes the dielectric properties of a biological tissue, said phantom being exposed to a microwave emission from an antenna. The method is characterised in that it comprises the following steps consisting in: measuring the amplitude and phase of the electric field inside the phantom, for a plurality of points on a given surface which is defined in a concentration near-field zone of said electric field; performing a near-field near-field transformation from the data measured on the surface such as to determine the electric field in the volume inside the phantom; and calculating the value of the SAR.



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# METHOD FOR ANALYZING THE LUMINESCENCE OF CHEMICAL AND/OR BIOLOGICAL SAMPLES

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**Publication date:** 2004-08-05  
**Inventor:** GARBOW NORBERT (DE)  
**Applicant:** EVOTEC TECHNOLOGIES GMBH (DE); GARBOW NORBERT (DE)

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AU2003298245 (A1)

**Classification:**  
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- **European:** G01N21/64F  
**Application number:** WO2003EP14893 20031224  
**Priority number(s):** DE20031002032 20030121

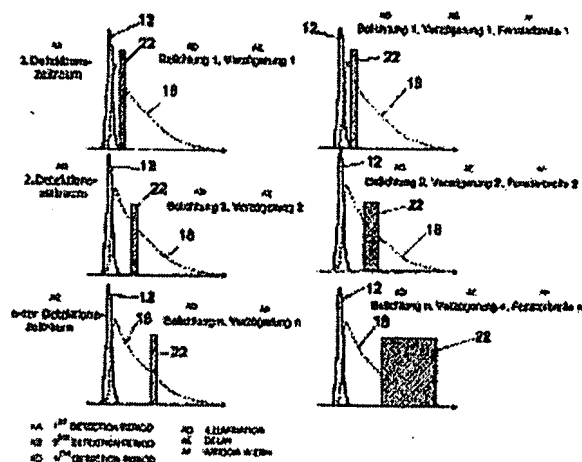
**Cited documents:**

WO0216911  
US5792051  
XP002289221  
XP002289222  
XP000266337

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# Abstract of WO2004065944

Disclosed is a method for analyzing the luminescence of chemical and/or biological samples, comprising the following steps: the samples are excited to luminesce by means of at least one electromagnetic excitation pulse that is applied to the sample; the emitted luminescence radiation is detected by means of a detector, at least one excitation pulse hitting the sample within a certain detection period such that at least one luminescence decay phase is detected within a certain detection period; and a closing device that is mounted upstream of the detector is activated for a certain observation period at different delay times.



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